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Toner composition for electrophotography and electrostatic recording - includes binder contg. polymeric substance having sulphonate Gp. linked with aromatic ring

Patent Assignee: FUJI XEROX CO LTD (XERF)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 63088564	A	19880419	JP 86233271	A	19861002	198821 B

Priority Applications (No Type Date): JP 86233271 A 19861002

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 63088564	A	6		

Abstract (Basic): JP 63088564 A

The compsn. comprises colouring agent and binder resin, which contains polymeric substance having sulphonate gp. linked with aromatic ring.

USE/ADVANTAGE - The toner is used for electrophotography, electrostatic recording etc., and can be used two component development process utilising carrier and also one component process utilising no carrier. Toner has good negative charging, developing and transfer properties. An adequate charging level is achieved within short time. Charging quantity is regulated sharply.

In an example, in pts. wt., styrene/n-butylacrylate copolymer (Tg = 65 deg.C, Mn = 30,000, Mw = 70,000) 60, styrene/Na-vinylbenzenesulphonate copolymer (Na-vinylbenzenesulphonate content = 3 mol%, Mn = 7,000, Mw = 10,000) 30 and carbon black 10 were mixed and ground thoroughly to obtain toner with particle size of d50 = 13 micron. To the toner were added silica fine powder 0.7 wt.% and acrylic resin fine powder obtd. soapless emulsion polymerisation by 0.8 wt.% and mixed together. In combination with carrier, the toner mixt. prepd. was tested for developing property. 30,000 xerographic copies obtd. by continuous operation were all clear.

Title Terms: TONER; COMPOSITION; ELECTROPHOTOGRAPHIC; ELECTROSTATIC; RECORD ; BIND; CONTAIN; POLYMERISE; SUBSTANCE; SULPHONATE; GROUP; LINK; AROMATIC ; RING

Derwent Class: A89; G08; P84; S06

International Patent Class (Additional): G03G-009/08

File Segment: CPI; EPI; EngPI

Manual Codes (CPI/A-N): A12-L05C2; G06-G05

Manual Codes (EPI/S-X): S06-A04C1

Plasdoc Codes (KS): 0007 0037 0203 0218 0044 0231 0306 0355 0486 0487 0495
 3034 0530 2082 2105 2326 2330 2542 2585 2651 2667 2806 2808

Polymer Fragment Codes (PF):

001 014 030 034 04- 040 05- 051 055 056 059 06- 074 075 076 081 09- 230
 27& 347 368 386 392 393 479 546 575 583 589 592 593 604 608 609 658
 659 679 688 725